

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A method of reproducing information from a multilayer recording medium including at least three information layers, the method of reproducing comprising:

converging a laser beam output from a light source onto ~~on~~ a target information layer of the multilayer recording medium;[[,]]

detecting as reflected light, light ~~the~~ that is reflected ~~light~~ from the target information layer as a result of the laser beam converged onto the target information layer, and generating ~~mainly to generate~~ an information signal from the detected reflected light;

detecting as a cross talk light, light ~~that is reflected~~ from information layers other than the target information layer as a result of the laser beam that is output from the light source and converged onto the target information layer, and generating ~~to generate~~ a cross talk signal from the detected cross talk light; ~~and~~

reading ~~a~~ predetermined information from the multilayer recording medium, the predetermined information indicating a ratio of the cross talk light that leaks ~~leaking~~ from the ~~other~~ information layers other than the target information layer into to a reflected ~~the reflected~~ light that is reflected from the target information layer;

determining ~~adjusting~~ a gain to be applied to ~~of the generated~~ cross talk signal based on the read predetermined information;

amplifying the generated cross talk signal based on the determined gain; and

removing the amplified cross talk signal from the information signal generated from the reflected light that is reflected from the target information layer to generate a

reproduction signal indicating information recorded onto ~~in~~ the target information layer.

Claim 2 (Cancelled)

Claim 3 (Cancelled)

Claim 4 (Currently Amended) The method of reproducing method according to claim 1, wherein the predetermined information includes reflectance information and transmittance information ~~of~~ for each of the other information layers ~~to which having a laser beam is irradiated thereon~~ from a surface of another information layer ~~the layer that is~~ opposite to a light source.

Claim 5 (Currently Amended) The method of reproducing method according to claim 1, wherein, when the multilayer recording medium includes three information layers, the predetermined information includes reflectance information and transmittance information regarding two of the three information layers.

Claim 6 (Currently Amended) The method of reproducing method according to claim 1, wherein the cross talk signal includes a signal that is reflected from the a second information layer reflected from the target information layer on the light source side.

Claim 7 (Currently Amended) A reproducing device ~~of for reproducing information from~~ a multilayer recording medium ~~comprising~~ including at least three information layers, the

reproducing device comprising:

a light source operable to irradiate a laser beam onto one information layer, as a target information layer, for to read reading information recorded in onto the multilayer recording medium;

a first detector operable to detect, as reflected light, light that is a reflected light from the one target information layer and mainly to generate an information signal from the detected reflected light;

a second detector operable to detect, as cross talk light, light that is a reflected-light from the other information layers other than the one target information layer as a result of the laser beam that is output from the light source and irradiated onto the target information layer, and to generate a cross talk signal from the cross talk light detected by the second detector;
and

a cross talk detector operable to read a cross talk information from a management area of the multilayer recording medium, the cross talk information indicating a ratio of the cross talk light that leaks-leaking from a light source side of the other information layers other than the target information layer into on the light source side to a the reflected light that is reflected from the one target information layer;

an amplifier operable to adjust determine a gain to be applied to of the cross talk signal ~~from the second detector~~ based on the read cross talk information, and amplify the cross talk signal based on the determined gain; and

a differentiating unit operable to obtain a difference between the information signal generated by ~~from~~ the first detector and the cross talk signal amplified by the amplifier,

~~and to~~ generate, based on the obtained difference, a reproduction signal indicating information recorded ~~onto in the one target~~ information layer.

Claim 8 (Cancelled)

Claim 9 (Cancelled)

Claim 10 (Currently Amended) The reproducing device according to claim 7, wherein the second detector surrounds ~~is provided so as to surround~~ the first detector.

Claim 11 (Currently Amended) A multilayer recording medium comprising at least three information layers and being irradiated with a laser beam from a light source to reproduce information, the multilayer recording medium comprising:

a management region ~~that stores to store~~ cross talk information indicating a ratio of a cross talk light ~~that leaks-leaking from a light source side of each information layer-layers~~ other than a specific information layer ~~of the multilayer recording medium on into the side of the light source to~~ a reflected light that is reflected from the specific information layer during reproduction of information from the specific information layer.

Claim 12 (Currently Amended) The multilayer recording medium according to claim 11, wherein thicknesses of a plurality of middle layers arranged between the plurality of information layers to isolate the plurality of information layers are substantially equal.

Claim 13 (Currently Amended) The multilayer recording medium according to claim 11, wherein the cross talk information includes reflectance information ~~in~~ of each of the other information ~~layers-layer~~ when a laser beam is applied ~~thereto~~ from a surface of another information layer that is opposite to an incident side of the light source.

Claim 14 (Currently Amended) The information medium according to claim 11, wherein the management region is provided on one information layer and information is not recorded ~~in~~ onto a region ~~on~~ of the other information ~~layers-layer~~ corresponding to the management region.

Claim 15 (Currently Amended) The information medium according to claim 11, wherein the management region is provided on ~~the an~~ information layer ~~which that~~ is closest to the light source in relation to the other information layers.